WBLE-SL ▶ UECM3463-202206-EZZ ▶ Quizzes ▶ 202206UECM34630E3a ▶ Review of preview							
Info Results Preview Edit							
202206UECM34630E3a							
Start again							
Review of preview							
	Wednesday, 10 August 2022, 05:04 PM Wednesday, 10 August 2022, 05:04 PM						
Time taken							
Grade	0 out of a maximum of 10 (0 %)						
1 🕏 Marks: 1	The number of claims in a period has aggregate claim amount in the period	s a Binomial distribution with parameters m = 7 and q = 0.51. The amount of each claim X follows P(X = x) = 0.25, x = 1, 2, 3, 4. The number of claims and claim amounts are independent. S is the d. Calculate F _S (4).					
	Answer:						
	Make comment or override grade						
	Incorrect Correct answer: 0.14 0 34 1319						
	Marks for this submission	n: 0/1.					
2 🕏 Marks: 1		s a geometric distribution with mean 4.20. The amount of each claim is distributed as follows Claim Amounts, $X \mid 0 \mid 1 \mid 2 \mid 3 \mid 4$ Probability $0.45 \mid 0.24 \mid 0.17 \mid 0.07 \mid 0.07$					
	The number of claims and claim amo	nunts are independent. S is the aggregate claim amount in the period. Calculate F _S (3)					
	Answer:	x					
	Make comment or override grade						
	Incorrect Correct answer: 0.562364						
	Marks for this submission	n: 0/1.					
3 🕏 Marks: 1		a Poisson rate of 0.47 per minute. makes on each customer is randomly distributed as follows:					
	Determine the probability of making	Profit 0 1 2 3 Probability 0.65 0.17 0.13 0.05 3 profit in 10 minutes					
	Answer:	X					
	Make comment or override grade						
	Incorrect Correct answer: 0.155993						
	Marks for this submission	n: 0/1.					

4 🗑 Marks: 1	Claim counts and sizes on an insurance coverage are independent and have the following distribution: Number of claims Probability 0 0.75 1 0.12 2 0.13						
	Let S be the aggregate claims. Calcul						
	Answer:	x					
	Make comment or override grade Incorrect Correct answer: 0.932845 Marks for this submission	: 0/1.					
5 ☑ Marks: 1	The number of claims on an insurance coverage follows a zero modified Poisson distribution with mean $\lambda = 5$ and $p_0^M = 0.41$. The size of each claim has the following distribution:						
	Answer:	x					
	Make comment or override grade Incorrect Correct answer: 0.403 Marks for this submission	: 0/1.					
6 ☑ Marks: 1	The number of snowstorms in January has a binomial distribution with m = 5, q = 0.5. The distribution of the number of inches of snow is Inches 1 2 3 4 5 6 Probability 0.18 0.27 0.21 0.09 0.09 0.16 The number of snowstorms and the number of inches of snow are independent. Determine the expected amount of snow in January given that at least 4 inches of snow fall						
	Answer:	x					
	Make comment or override grade Incorrect Correct answer: 9.0749 Marks for this submission	: 0/1.					
75	For an incurance coverage, you are d						
7 ☑ Marks: 1	 For an insurance coverage, you are given: Claim frequency (N^M), before application of deductibles, follows a zero modified geometric distribution with parameters β = 5 and P(N^M = 0) = 0.62. Claim size (X^M), before application of deductibles, follows a zero modified Poisson distribution with parameters λ = 4 and P(X^M = 0) = 0.55. Claim frequency and claim size are independent. There is a deductible of 3 per loss. 						
	Calculate the probability number of payments being greater than 6 times 1000, i.e. calculate 1000P(N ^P > 6).						
	Answer:	X					
	Make comment or override grade Incorrect Correct answer: 8.37427 Marks for this submission	: 0/1.					

8 P Marks: 1	 For insurance coverage, you are given: The number of claims for each insured follows a Binomial distribution with parameters m = 8 and q. q varies by insured according to beta distribution with parameters a = 17 and b = 4 Claim size, before application to claims limits, follows a gamma distribution with parameters a = 4, θ = 800. Coverage is subject to claim limit of 1,990. Number of claims and claim sizes are independent. Calculate the probability that aggregate losses will be greater than 2,404, using the normal approximation					
	Answer: Make comment or override grade Incorrect Correct answer: 0.999943 Marks for this submission	: 0/1.] x			
9 🗑 Marks: 1	 Claim size, follows a Gamma di Number of claims and claim size 	insured follows a Poisson distribution with mean 3. stribution with parameters $\alpha=6$, $\theta=850$. es are independent. of the aggregate losses and then calculate the skewness] x			
	Incorrect Correct answer: 0.712697 Marks for this submission	: 0/1.				
10 Marks: 1	Losses follow a compound distribution For frequency For Severity Calculate the Variance of the aggrega	with both frequency and severity having discrete distribution. $P_N(z) = 0.47 + 0.53[e^{2.00z} - 1]/[e^{2.00} - 1]$ $P_X(z) = 0.35 + 0.33z + 0.25z^2 + 0.04z^3 + 0.03z^4$ te losses				
	Answer: Make comment or override grade Incorrect Correct answer: 3.7468 Marks for this submission	: 0/1.	X			